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DOGM
MINERALS PROGRAM
FILE COPY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED
DEC 05 1991
U. S. GYPSUM CO.
Sigurd, Utah 84657

NOTICE OF INTENTION TO REVISE MINING OPERATIONS

When an operator intends to revise a mining operation, a **Notice of Intention to Revise Mining Operations** shall be filed with the Division. The notice must include all information, concerning the revision, that would have been required if it had been included in the original Notice of Intention (NOI). Ideally, the revision application should be a "stand-alone" document and include all information necessary to conduct a complete review.

"REVISION" means a **significant change** to the approved Notice of Intention to Conduct Mining Operations, which will increase the amount of land affected or alter the location and type of onsite surface facilities such that the nature of the reclamation plan will differ substantially from the approved Notice of Intention. Revisions require public notice and may require approval by the Board of Oil, Gas & Mining, if a change to the amount and/or form of the reclamation surety is necessary.

"AMENDMENT" is an **insignificant change** to the approved Notice of Intention. An amendment requires Division approval, but does not require public notice.

The Division will determine whether a request for change is significant or insignificant on an individual case-by-case basis.

PLEASE NOTE: When applicable, reference to previously approved information contained in the original NOI can be used (identify volume #'s, section, page #, plate/map #'s, & date of submittal). If possible, please attach appropriate copies of the referenced material as part of the application for revision.

Where possible, please format the application to revise mining operations (e.g., text, maps, tables, figures, etc.) to allow direct insertion into the original NOI as replacement pages, or as a separate addendum to the approved NOI.

The operator is encouraged to use this form as a guide only. Please use extra sheets as necessary to complete each section that follows.

The following information must be included as part of the application to revise mining operations:

I. GENERAL INFORMATION (Rule R613-004-104)

1. Name of Operator/Applicant: United States Gypsum
2. Name of Company/Corporation: United States Gypsum
3. Address: P. O. Box 160
Sigurd, Utah 84657
4. Phone: (801) 896-4484
5. Name of Mine/Project: Jumbo-Jensen Quarry
6. Previously Assigned File Number: (M / S) / 041 / 008
*from original Notice of Intention (NOI)
7. Location of Proposed Activities:

COUNTY Sevier

TOWNSHIP 22 S, RANGE 1 W,

SECTION(S) 29 (Identify to 1/4, 1/4 section)

8. Ownership of Land Surface:

Private (Fee) ☒ Owners Name(s): United States Gypsum
(Private) Patent Claim

State of Utah ☒ Public Domain (BLM) _____ National Forest (USFS) _____

9. Ownership of Minerals:

Private (Fee) ☒ Owners Names(s): United States Gypsum
(Private) Patent Claim

State of Utah _____ Public Domain (BLM) _____ National Forest (USFS) _____

10. Utah Mining Claim Number(s) N/A
N/A

11. Utah State Lease Numbers(s) N/A
N/A

II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R613-004-105)

Appropriate maps, drawings, plates, etc. should be provided that are pertinent to the revision, or amendment of mining operations. Please provide a revised map outlining the previously approved and the new proposed disturbed area boundaries. These materials should be prepared according to the requirements of Rule R613-004-105.

List map numbers or appendices used for this section: A, B, C, D, E, F

III. OPERATION PLAN (Rule R613-004-106)

Provide a narrative description, referencing any appropriate attached maps or drawings, of the pertinent details of the proposed change(s) in the operating plan. Specific details which are different from those described in the original approved NOI should be included. Identify additional proposed surface disturbance. Include the total number of acres to be affected by the revision or amendment. All appropriate information requirements as outlined under Rule R613-004-106 must be addressed in the application.

The US Gypsum Company wishes to incorporate an additional 9 acre solid waste disposal site into the Approved Reclamation Plan of 1988. This waste dump site is an old pit designated as N-1 and is located on the Jumbo patent claims. (See attached narrative description.)

IV. IMPACT ASSESSMENT (Rule R613-004-109)

Please provide information as required under Rule R613-004-109 regarding projected potential surface and/or subsurface impacts which may be associated with the proposed change(s) in mining operations.

There will be no additional surface disturbance at the N-1 Pit.

V. RECLAMATION PLAN (Rule R613-004-110)

Describe how you intend to stabilize the disturbed areas upon cessation of operations. This includes backfilling excavations, grading, sloping or contouring, permanent stabilization of slopes or roads, permanent closure of roads, removal of structures and improvements, etc. Provide cross section of the proposed final contour of the land after reclamation.

Please outline any proposed changes to the originally approved reclamation plan. Appropriate sections of Rule R613-004-110 must be addressed as they may apply to the proposed change(s) in mining operations.

The Gypsum wallboard waste will be used to fill the N-1 Pit, which is approximately sixty feet in depth to its full capacity. A two foot cover of shale/gypsite material will be placed over the waste material, contoured, fertilized, and re-seeded as described in the original Mining and Reclamation Plan.

VI. VARIANCE (Rule R613-004-112)

Please identify any requests for variance from the requirements of rules R613-004-107, -108, or -111. A narrative justification must also be included for each variance request. A discussion of any alternate methods or other mitigating measures should be included, if applicable.

None

VII. SURETY (Rule 613-004-113)

Reclamation Surety:


Indicate whether the proposed activities will change the amount of work required to reclaim the minesite. If significant changes will result, then an itemized reclamation cost estimate should be provided (and attached) with direct reference to the specifics of the proposed change(s). This information will be used to assist the Division in determining any reclamation surety adjustments required for the operation.

The proposed waste disposal site is an old mined-out gypsum pit covered by the original Mining and Reclamation Plan. Further disturbance of the surface or the subsurface would not be required.

VIII. SIGNATURE REQUIREMENT

The application for permit change must include a section similar to the following example:

I hereby certify that the foregoing is true and correct.



Signature of Authorized Officer/Representative:

Larry Pawlosky

Name (Typed or Print):

Quarry/Mill Manager

Title of Authorized Officer/Representative:

Date: August, 20, 1993

MN63/41-45

SUMMARY PLAN

United States Gypsum Company, a Chicago based company wishes to submit for approval an application for a solid waste disposal site on patented claims located in Sevier County, Township 22 South, Range 1 West, Section 29. The solid waste disposal site would be incorporated into the company's on-going Approved Reclamation Plan.

The following information is provided in an effort to address the requirements called for on the form MR-REV.

1. The proposed solid waste disposal site is a nine acre area, approximately 60 feet in depth, located in the mined out N-1 Pit, Jumbo patent claim. (See Exhibits A,B,C,D,E for location)
2. The pit is located away from any major drainage features and the topography is typical of rolling hills.
3. Access to the N-1 disposal site will be by the major haul road from the wall board plant to the active mining area on the Jensen Claim.
4. The N-1 Pit is isolated 12 miles from the nearest residential home, 4 miles from any industrial building, and 4 miles from the nearest well.
5. The proposed disposal site will be a single user dump only. Materials placed in the site will include: gypsum waste produced by the United States Gypsum Company wall board plant in Sigurd, ready mix, paper, cardboard, plastic buckets, and wood pallets.
6. The gypsum waste was deemed a non-hazardous waste by the Department of Environmental Health and will be hauled to the disposal site in open quarry haul trucks. The loads will be trimmed to eliminate any spills along the quarry haul road.
7. There will be approximately 3 tons of gypsum waste per day containing the following ingredients:

	Gypsum	91.00%
*	Rock impurities	2.00
	Paper	6.00
	Starch	0.46
	Paper fiber	0.44
	K ₂ SO ₄	0.08
	Fatty alcohol	0.02
	Sodium nitrate	tr.

	Total by weight	100.00%

- * Rock impurities include shale, anhydrite, and other natural minerals.

The ready-mix waste consists of the following ingredients:

Gypsum	70.2%
Water	23.3
Raw materials	6.5

Total by weight	100.0%

The source of this waste is from the plant wall board manufacturing process and will not include any food waste or hazardous materials.

8. A vertical anhydrite zone crosses Northeast-Southwest through the pit area and is sandwiched on either side with a massive impervious shale formation. 18 drill holes drilled to a depth of 20 feet were explored for rock type and ground water depth. (See Exhibit E,F) No ground water was encountered at explored depths. Mineral exploration and mining in this area indicates a series of anticlines and synclines cut off by natural erosion. Therefore the continuity of the gypsum bed was terminated down dip from the pit area. (See figure 1)

Zig-Zag
Ridges
Because of
Erosion
of the
Plunging
Anticlines
and
Synclines

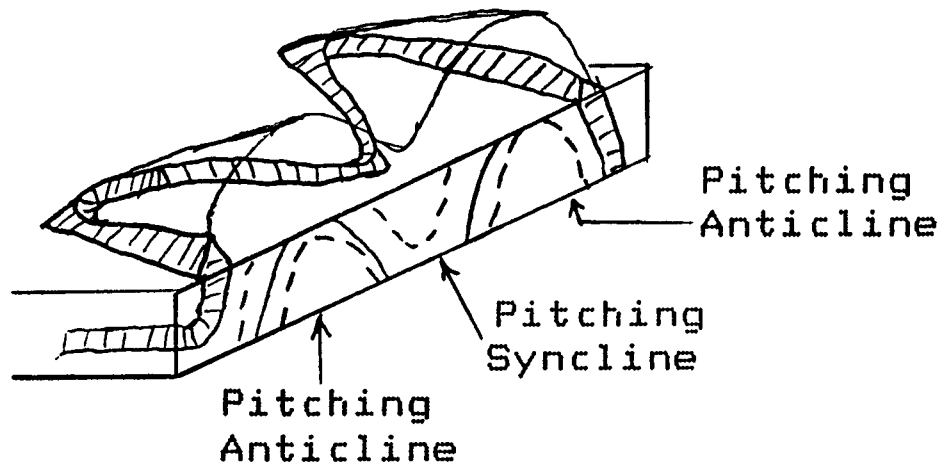


Figure 1. Typical Geological Section

9. During the mining operation at the N-1 Pit shale was stripped from the sides of the exposed gypsum bed along the ridge. This material will be utilized as cover material along with available topsoil.
10. After the N-1 pit has been filled to capacity, decomposed shale and gypsum will be utilized for topsoil and placed to a depth of two feet. The entire disturbed area will be recontored and all necessary drainage will be reestablished. To encourage plant growth of native species of big sagebrush, shadscale, rabbit bush, four wing salt bush, and indian rice grass, 200 lbs/acre of Diammonium Phosphate will be spread to provide the necessary nutrients for the plants and seeded with the above mentioned wild seed mixture.
11. Because of on-going mining operations in the near vicinity, the following equipment will be available for excavation, earth-moving, compaction, spreading, and other needs:

Equipment

980 Cat Loader
25 ton Haul Trucks
TD-30 Dozer w/ Rippers
Road-grader
Backhoe

12. Arrangements have been made with the Sigurd Fire Department located 4 miles from the proposed disposal site for possible fire suppression requirements.
13. Fencing will be installed down wind for prevention of any incidental wind blown paper or material from polluting the surrounding area.